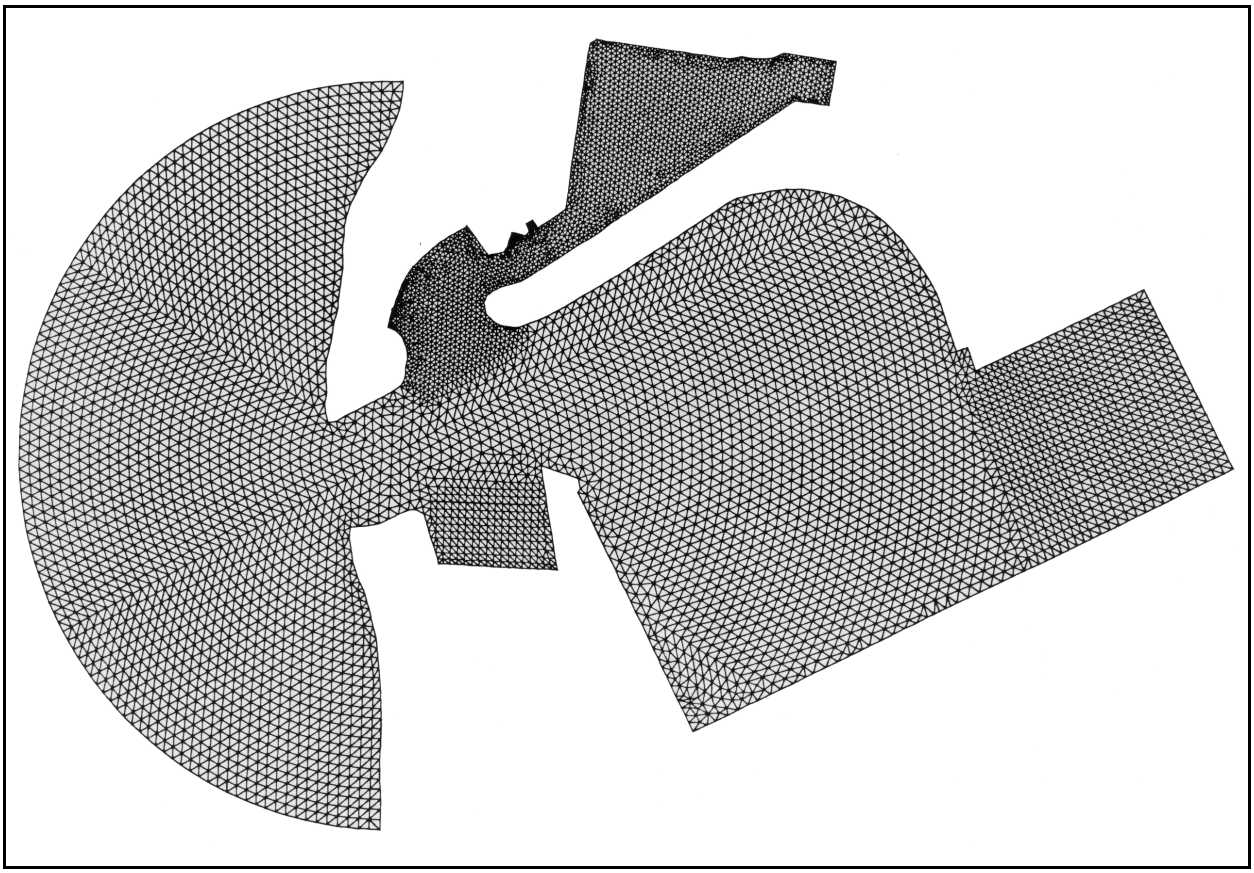

Figure II-7-36. Numerical model grid for Barbers Point Harbor, HI (Briggs et al. 1994)

$$T_H = 2\pi \sqrt{\frac{(\ell_c + \ell'_c)\, A_b}{g\, A_c}} \tag{II-7-18}$$

where

T_H = resonant period for Helmholtz mode

ℓ_c = channel length

ℓ'_c = additional length to account for mass outside each end of the channel

A_b = basin surface area

A_c = channel cross-sectional area